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OF THE
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1948-49



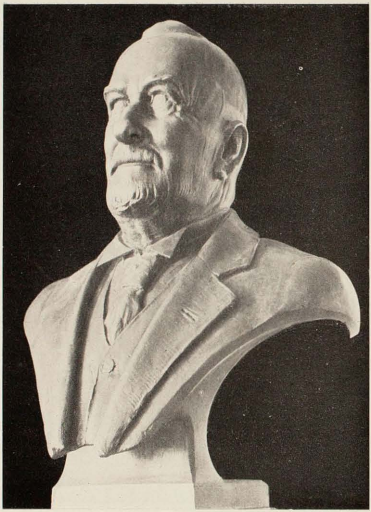
For presentation at the Annual General Meeting to be held on 31st May, 1949.

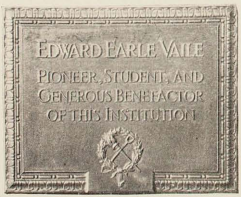
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OF THE

AUCKLAND INSTITUTE AND MUSEUM

For 1948-49

For presentation at the Annual General Meeting to be held on 31st May, 1949.



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Ethnologist	V. F. FISHER, M.A.
Hon. Numismatist	J. C. ENTRICAN.
Hon. Curator of English China	C. REGINALD FORD, F.R.I.B.A.
Botanist	R. C. COOPER, B.COM.
Ornithologist and Entomologist	E. G. TURBOTT, M.SC.
Associate Ornithologist	MAJOR G. A. BUDDLE, D.S.O.
Associate Ethnologist	OLWYN M. TURBOTT.
Geologist	M. H. BATTEY, M.SC.
Education Officer	ZOE O. LLOYD, B.A.
Assistant Education Officer	MARJORIE L. HURREY.
Librarian	ENID A. EVANS, B.A., A.L.A.
Library Assistant	JOYCE BARTLEY.
Bookkeeper and Typist	ALIX MULLIONS.
Typist	PAULINE C. BOYD.
Taxidermist	C. W. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	J. L. DAVY, D.C.M.

Attendants:

J. STEWART, S. M. BETTERIDGE, J. FREESTONE, S. BROWN.

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MR. J. W. KEALY.
MR. R. S. HARROP, F.COM.

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Trust Board:
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MR. E. ANDERSON.
SIR CECIL LEYS.
MR. KENNETH B. MYERS, M.B.E.
MR. A. T. PYCROFT.

Representatives on Council of Royal Society of New Zealand.
PROFESSOR L. H. BRIGGS.
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Director:
GILBERT ARCHEY, O.B.E., M.A., D.SC., F.R.S.N.Z.

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Reports to Members

President

At the last Annual Meeting we reported that the Auckland Provincial War Memorial Committee had chosen as the memorial to those who died in the Second World War the extension of the War Memorial Museum building to enshrine the new Roll of Honour, and commemorations of the valour and sacrifice of those who served. The Memorial Committee, on which the Council of the Institute and Museum is represented, has been active in furthering the decision, and an appeal for the required funds has been launched. Generous donations have already been made and your Council is confident that members of the Institute will give liberally and will assist the Memorial Committee's efforts in every possible way.

The year which has passed has been full of activity by the Council and staff of the Museum, and of growing interest in its functions on the part of the public. We record with thanks generous donations to funds, and gifts of valuable exhibits, among which may be specially mentioned: A bequest of £1,000 by Mr. E. P. Mitchelson; a cinema-sound projector, the gift of Sir Frank Mappin; a grant of £450 authorised by the Minister of Education, the Hon. T. H. McCombs, for constructing a lecture and projection room for visiting school classes; and a donation of £50 from the Auckland Electric-power Board. The Maori collections have been enriched by notable acquisitions obtained through the Edward Earle Vaile, the Lady Leys, and the Sir James Gunson Funds; we have pleasure in acknowledging the gift by Mr. Vaile of a handsome book plate for the library books secured through his endowment.

The resignation from the Council of Sir Cecil Leys, a member since 1925 and President in 1934, is recorded. Sir Cecil continues as a member of the Trust Board, on which he has served for seventeen years. Cordial thanks are tendered to him for his valuable service and his generous gifts. Mr. Alfred N. Cooper has accepted the Council's invitation to succeed Sir Cecil Leys, and Mr. T. R. Holdsworth was elected by members of the Contributing Local Bodies in the place of Mr. Trayes.

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The Council has held six meetings during the year; the February meeting was omitted on account of the Science Congress. At the close of the December meeting the Council was joined by a number of friends of Mr. E. Earle Vaile at a gathering to unveil a bronze portrait bust of Mr. Vaile, set up to commemorate his munificent gifts to the Museum and his many years of notable service to the Institution.

During the year 64 new members have been enrolled, but we have lost from various causes 29 members. Our membership is now 830, of whom 232 are life members.

By the death of Mr. A. G. Lunn we have lost a widely-known and respected member of many years' standing and one who was keenly interested in every aspect of the work of the Institute and Museum. The Institute is deeply indebted to him for long service on the Council, as President in 1931-33, and as a member of the Trust Board.

We also express our deep regret at the death of Captain George A. Humphreys-Davies, Honorary Life Member and Honorary Curator of the Oriental Collections, the greater part of which were his own generous gift to the Museum. Captain Humphreys-Davies delighted to share his pleasure in the fine pieces of the collection, and visitors will remember his attendances on Sunday afternoons to show them and to explain their qualities to those who were interested.

Other members whose death we have regretfully recorded are Mr. A. E. Trayes, representative on the Council of the Contributing Local Bodies, Miss Eleanor Brown, Professor J. C. Sperrin-Johnson, and Messrs. A. J. Hutchinson, O.B.E., G.C. Creagh, E. H. Binney, E. N. Ormiston, T. A. Low, C. G. Macindoe, D. D. Scott, W. P. Winstone, D. L. Clayton, P. B. Fitzherbert, and R. Ward.

At the last Annual Meeting the members elected Mr. J. C. Entrican to honorary life membership in recognition of his many years of service and his generous gifts. The Council cordially congratulates Dr. G. H. Cunningham, F.R.S.N.Z., on the award to him of the Hector Medal for his distinguished botanical investigations.

The revenue of the Institute and Museum shows a slight increase, chiefly from members' subscriptions and from interest on the Auckland Savings Bank's centennial gift of £5,000 made last year. Expenditure has been kept within revenue only by pruning

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certain items to meet inevitable increases elsewhere. The excess of receipts from sales over the printing and production costs of handbooks has been placed to a reserve fund to meet the cost of new handbooks and educational leaflets to be printed during the coming year.

Further revenue can come only from increased endowment income and a larger membership; and members are requested to assist by obtaining the agreement of their friends to join the Institute.

The Council has continued its active support of the effort being made to secure the absolute preservation of the Waipoua Kauri Forest. It welcomes the appearance of Mr. W. R. McGregor's book, "The Waipoua Kauri Forest of Northern New Zealand," which members are urged to read and recommend to their friends. Mr. McGregor and Dr. Archey attended meetings of the Lands Committee of the House of Representatives to give evidence in support of the 50,000-signature petition to the House for the preservation of Waipoua Forest as a National Park.

The Council is sure that members will strongly endorse the action taken by the Rangitoto Island Domain Board to eliminate from the island the intruding exotic pines, said to number nearly 1,000 trees with numerous seedlings. It is to be hoped that means will also be found to eliminate the introduced deer, wallaby and opossum.

The Council joined with other organizations in securing the purchase of Le Roy's Bush at Birkenhead; it has been invited to make a nomination for membership of the Board of Control.

The Seventh Pacific Science Congress, held in February, was a momentous event in the history of science in New Zealand. The Institute shared with the Auckland University College the privilege of acting as host institution in Auckland; and the Auck'and Committee, under the chairmanship of Dr. Archey, who was also Secretary-General of the Congress, included the Mayor, the Town Clerk, and the Presidents and members of both institutions.

An "At Home" given by the Mayor, a Garden Party given by Sir Frank and Lady Mappin, and a joint Institute and University College Reception in the War Memorial Museum, constituted the formal entertainment: members of both institutions contributed liberally to a fund for excursions, transportation and other hospitality.

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An attractive handbook, "Auckland," was sponsored by the City Council, the Harbour Board, the Transport Board and the Electric-power Board, and many local organizations and citizens gave ready assistance.

Members of the Institute and the University derived much benefit from the Congress, both in its scientific meetings and in the opportunities for friendly association with their overseas colleagues.

The Congress was attended by over 200 delegates from overseas and by over 500 from New Zealand. Many of the visiting scientists visited the Museum several times during their stay in the city, and spoke highly of the building, the exhibits and the efficiency of the staff, and were most appreciative of the arrangements made for the Congress and for entertainment and accommodation for the delegates.

THOMAS BLOODWORTH.

Chairman of the Trust Board

The endowment capital of the Institute and Museum has increased by £2,075 during the year, the chief items being the late Mr. Mitchelson's bequest of £1,000; Mr. A. V. Hanson's estate part realization £789, and life members' subscriptions £178. The total investments, £48,116, include £43,488 of endowments and £4,628 of reserves, the balance of the reserve accounts being in cash. The Life Members' Subscription capital account is now £3,768.

One mortgage, £2,000, was repaid and reinvested in New Zealand Government inscribed stock. The remaining mortgages are being reduced annually and the security margin correspondingly improved.

V. J. LARNER.

Director

Members had the opportunity of attending seven Monday evening addresses during the year, comprising a most interesting series for which we cordially thank the contributors.

The cinema film "Atomic Physics" was borrowed from the National Film Library; it was divided for two screenings, each being preceded by an introductory address, one by Professor Burbidge and the other by Professor Brown.

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A lecture by Sir Ben Lockspeiser, Director-General of Scientific Research in the Ministry of Supply, was arranged in conjunction with the Auckland Branch of the Institution of Engineers.

The other lectures were given by:—

Mr. E. G. Turbott, M.Sc.: "Birds of the Outlying Islands."

Mr. A. W. B. Powell, F.R.S.N.Z.: "Land Snails and Earth History."

Dr. G. Blake Palmer: "Psychiatry and Social Problems." Annual British Medical Association Lecture.

Mr. J. D. Sargent, M.Sc.: "Bacteria in Relation to Milk Quality."

Mr. Powell's lecture was given on the occasion of the presentation to him of the Hector Medal awarded by the Royal Society of New Zealand for his distinguished researches in zoology. The presentation was made by the President of the Royal Society, Dr. R. A. Falla. On this occasion the Loder Cup was presented to Mr. N. R. W. Thomas by Mr. G. J. Joseph, Chairman of the Auckland Council of the Royal New Zealand Institute of Horticulture.

Three Ordinary Meetings were held, papers being read by: Miss Myra Carter, Miss V. Dellow, Miss A. Lush, Mr. W. Andrew, Mr. V. J. Cook, Mr. M. H. Battey, and Mr. S. M. Hovell.

This year's Sunday afternoon lecture series comprised eight addresses given by Auckland scientists, including members of the Museum staff. Good attendances again testified to the appreciation the public have of these lectures. Contributors to the series were:

Mr. Johannes C. Andersen: "Maori Place Names."

Mr. R. B. Sibson: "Bird Migration and New Zealand."

Mr. M. H. Battey: "Pacific Geology."

Professor V. J. Chapman: "Salt Marshes."

Mr. A. C. Hipwell: "Primitive Art."

Mr. R. S. Walsh: "The Inmates of the Hive."

Mr. J. Healy: "Recently Active Volcanoes in N.Z."

Mr. R. C. Cooper: "Some New Zealand Alpine Plants."

The Auckland Astronomical Society has had a considerable increase in members, the number now being seventy-eight. Eight meetings were held, with an average attendance of thirty-eight, the subjects including Sundials, Galaxys, Aurorae and Earthquakes,

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the last being given by Dr. E. A. Hodgson, Assistant Dominion Astronomer of Canada, a visitor for the Pacific Science Congress. A junior section held ten meetings and three field nights at the telescope of Mr. B. D. Smith.

The President for 1949 is Mr. R. D. Thompson, F.R.A.S., and the Hon. Secretary Mr. J. L. Stichbury, Ostrich Road, Patumahoe.

The Anthropology Section has also increased its membership during the year, from 53 to 84; it had an average attendance of 51 at eight lectures. The Section has been fortunate in having had lectures from Professor Raymond Firth, Dr. Herbert Money and Mr. H. E. Maude during their recent visits to New Zealand.

Dr. G. Blake Palmer will continue as Chairman during 1949 and Miss J. Metge as Honorary Secretary.

Notwithstanding the time given to Science Congress preparations, the members of the staff have been able to continue their field investigations and their studies on the rapidly extending display and research collections. The work undertaken is described in the individual staff reports, but special mention should be made of the completion of the first stage of investigations into the changes in flora and fauna that will inevitably follow from the extermination of goats on the Three Kings Islands. A double number of the "Records" was published, and the reports, listed below, include a record of the present conditions on the island and details of special marked areas intended to provide bases of comparison against which the future floristic and faunal changes can be measured.

The first steps in another ecological development study have been taken by Mr. Cooper by recording the plants surrounding Ngauruhoe's new lava flow, the issue of which was by the way first reported by Mr. Battey. The stages of occupation of this new rock surface should provide interesting studies.

REPORTS ON THREE KINGS ISLANDS.

Foreword.—Gilbert Archey, Director.

Chronology of Exploration of the Three Kings Islands.

The Outlying Islands of the Three Kings Group.—G. A. Buddle, Associate Ornithologist.

Report on Rocks collected by Mr. G. A. Buddle from Islands of the Three Kings Group.—J. A. Bartrum, Auckland University College.

Maori Carvings from the Three Kings Islands.—Gilbert Archey, Director.

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The Flora of the Three Kings Islands.—W. R. B. Oliver, Wellington.

Vegetation of Great Island, Three Kings Group.—G. T. S. Baylis, University of Otago.

Effect of Goats on Great Island, Three Kings, with descriptions of Vegetation Quadrats.—E. G. Turbott, Ornithologist.

Land Mollusca of the Three Kings Islands.—A. W. B. Powell, Assistant Director.

Collembola from the Three Kings with a Description of *Proisotomina*, new genus.—J. T. Salmon, Dominion Museum.

New Species and Records of Lepidoptera from the Three Kings Islands.—J. T. Salmon, Dominion Museum.

A New Sub-Family and Species of New Zealand Opiliones.—R. R. Forster, Canterbury Museum.

Birds of the Three Kings Islands.—E. G. Turbott, Ornithologist and Entomologist, and G. A. Buddle, Associate Ornithologist.

A New *Anthornis* from Three Kings Islands.—R. A. Falla, Dominion Museum.

A Note on the Occurrence of the Genus *Hoplodactylus* in New Zealand.—N. G. Stephenson, Auckland University College.

It is of the utmost importance that the reserve and study collections in a museum, no less than those on display, should be maintained in good condition, systematic order and ready accessibility. The rapid growth of collections is now pressing hard upon available accommodation, and members of the staff are having to spend valuable time in contriving rearrangements to utilise the limited accommodation to the best advantage. Such storage and study space does not claim public attention, but is nevertheless essential if the staff are to give to the public the service it is constantly claiming of prompt identification of specimens and answers to enquiries.

Cramped conditions will, however, remain for some years, because the provision of extra study space by building mezzanine floors, successfully contrived elsewhere, can hardly be introduced into areas that will be structually rearranged in the completed Memorial Museum building. We wish to avoid taking present display space for reserve collections, particularly as two bays of the Maori Court have already been given up for conversion into an adequate-sized projection room for visiting school classes to replace the existing unhygienically limited accommodation.

Miss Jean Kidson resigned from the position of Bookkeeper and Typist in March on her marriage. Her willing, efficient ser-

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vice and her pleasant readiness to help were much appreciated by all members of the staff, who offer her their best wishes for the future.

Three members of the Attendant staff have also left: Mr. H. G. Hollamby had been with the Museum nine years, Mr. S. M. Betteridge since 1940, and Mr. W. J. Dunlevey since 1946. All have given loyal and courteous service to the Museum. The War Memorial Museum has been fortunate in having as attendants those whose long and honourable military service has set a standard and a tradition for the duties the attendants perform and the good relations maintained with the public.

GILBERT ARCHEY,

Director.

Assistant Director

Extra duties connected with the Seventh Pacific Science Congress have restricted somewhat the normal routine of the Conchology and Marine Natural History Departments. As organising chairman for the Division of Oceanography, a large amount of preparation was necessary; in addition, an article on Marine Natural History was written for the Local Handbook; which was designed, edited and supervised through the press. Other duties entailed the preparation of guide sheets for local and intersessional tours and the conducting of one of the latter between Auckland and Wellington.

The Oceanography Division had very successful sessions, the programme being most instructive and stimulating. Of especial value were the many contacts made with overseas specialists.

Other publications supervised during the year were Records of the Auckland Institute and Museum, Vol. 3, Nos. 4 and 5; a special Three Kings Islands number of 155 pages; and the third edition of Native Animals of New Zealand. Over 9,300 copies of the latter have been sold to date.

Field trips included a short visit to Great Island, Three Kings group, through the generosity of Mr. A. J. Black, of Dunedin, who provided transport in his motor vessel, the "Alert," and two visits to the extreme northern coast through the courtesy of Messrs. A. Hancox, of Kaikohe, and R. A. Prouse, of Levin, both of whom

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provided motor transport. These trips were largely concerned with research into native land snails, and the discovery of ten new species has resolved from these trips.

Eighteen outside lectures were delivered, including seven as part of an Adult Education course in the W.E.A. Biological series.

A paper, "Certain Bi-polar Elements in Marine Mollusca," was given at the Auckland meeting of the Seventh Pacific Science Congress and another, "Land Mollusca of the Three Kings Islands," was published in the "Museum Records."

A manuscript comprising over 300 pages and representing twelve years' work is now completed. Dealing with the Antarctic and Subantarctic Molluscan collections of the R.R.S. Discovery II, it has been completed for publication in the Discovery Reports, Cambridge University Press.

Work on another Antarctic-Subantarctic project, concerned with the "Cape Expedition" material, is nearing completion.

The Museum Conchology Club completed its eighteenth year in March with an active membership of 63. Twelve well-attended evening meetings and several field days were held.

An outstanding accession during the year was the 484lb marlin caught by Mr. E. V. W. Anderson, of Hastings, which is *Makaira herscheli*, or a New Zealand regional variant of this South African species. A cast has been prepared for exhibition.

The reference collections of mollusca have been made more accessible, the result of further labelling and classification of recently acquired material. Also, the considerable collection of departmental photographic negatives and lantern slides has been indexed and arranged.

Enquiries continue to increase, those relating to fish being particularly numerous. One enquiry involved the naming of over five hundred species of Solomon Islands marine mollusca, and another of a series of Malayan land snails.

A. W. B. POWELL.

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Ethnologist

Of 886 accessions received during the year, the following are of special interest: Two greenstone *hei tiki*, a river canoe prow, *patu onewa* and Maori feather cloaks, representing a portion only of the material acquired from the Edward Earle Vaile Trust Fund; a tooth necklace from Ocean Island, the gift of Sir Albert Ellis; a collection of Melanesian specimens from Mrs. W. H. Cocker; a small Maori collection from the late Mr. Andrew Bell including an eel-killer; a collection of Micronesian specimens from Miss Cozens, and some African specimens mainly from Nyassaland, presented by Mrs. W. C. Maxwell.

Seven lectures were delivered during the year, in addition to contributing portion of a course on the "Ethnology of the Pacific" under the auspices of the Adult Education Centre. Members of this group visited the Museum on two occasions to study the Pacific collections. Discussions in which an active part was taken included one at the 1ZB Citizens' Forum on "Immigration" and one conducted jointly by the Auckland Branch of the Geographical Society and the Anthropology Section on "Maori and Pakeha in New Zealand today." At the August meeting of the Auckland Branch of the N.Z. Association of Scientific Workers, an address was given and discussion initiated on the Seventh Pacific Science Congress. A series of eight lectures was organized for the Sunday Afternoon Series held in the Museum Library.

At the request of the Mayor of Otahuhu active co-operation was accorded the local schools during the Otahuhu centenary celebrations. Displays illustrating Maori ethnography were set up at the Primary School and Otahuhu College, while two talks on "The Maori History of Otahuhu" were offered at the College. Numerous specimens and lantern slides were loaned to outside groups. Girl Guides wishing to qualify for the Maori Badge were tested. The Boys' Ethnological Club held a successful session of 22 meetings and members co-operated in the preparation of a special display at the Cheeseman Memorial Spring Flower Show.

Participation in the preparations for the Seventh Pacific Science Congress included membership of the Auckland Committee and the preparation of an article on Maori Life on the Auckland Isthmus for the Auckland handbook.

During the Auckland session I acted as local organizer for the Anthropology Division and as liaison officer with trading firms in the arrangement of a display of New Zealand and Pacific books and photographs, also as guide for a field excursion to One Tree

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Hill and Mt. Wellington and an excursion along the Waitakere Scenic Drive. A paper on "Ethnobotanical suggestions on potentially useful plant products in the Cook Islands, Niue and Samoa," was read at the Auckland meeting. Prior to and during the Congress a large number of visiting scientists called at the Museum to examine collections and to discuss mutual problems. Tentative arrangements were made for exchange of material with several overseas institutions. Extra Museum duties were also undertaken for some time before the Congress commenced. The Christchurch session of the Congress was also attended.

While in Christchurch, particular attention was paid to the Macmillan Brown Collection at the Canterbury University College; and in Wellington, two days were spent examining the Oldman Collection of Maori and Polynesian specimens.

An increasing amount of time is absorbed interviewing people who require advice and information. Included among these are students from the Teachers' Training Colleges and the University, seeking advice concerning theses in course of preparation. The collections in the department have grown so much over recent years that space for the research collections is now taxed to the utmost extent and more space is urgently required. During the University vacation Miss A. J. Metge again acted as student assistant and performed her duties in a very able and competent manner.

V. F. FISHER.

Associate Ethnologist

The principal work in the Pacific Hall has been a rearrangement of the Hawaiian collection, centring round the magnificent feather cloak which was acquired recently. A portion of the case was fitted with a specially designed door and automatic artificial lighting in order to exclude daylight, which would fade the brilliant scarlet and yellow feathers of the cloak.

Work is also well advanced upon a new arrangement of the New Guinea material featuring dramatic masks and other colourful ceremonial objects.

In the latter part of the year considerable time was devoted to hotel booking and accommodation arrangements for the Seventh Pacific Science Congress, and in attending sessions both in Auckland and Christchurch.

During the winter a course of eight lectures on Polynesian life was delivered at the W.E.A. in the absence of Mr. Fisher. Several other public lectures were given.

OLWYN M. TURBOTT.

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Botanist

During the year over half of the exotic collection has been mounted and sorted into working order. With the addition of further material, the collection will be of great value in identifying cultivated plants and weeds.

Accessions numbered 480 species, of which 164 came by exchange or gift and the balance from collecting at Auckland, Arthur's Pass, National Park and North Cape. The most important gift was the fern collection of the 1938 Hawaiian Bog Survey party (Drs. Skottsberg and Selling, and Mrs. Watson Smith). Three collections of plants and two of timber specimens were sent overseas, two going to India, two to U.S.A. and one to Hungary. Eight requests for the loan of specimens were received, two from Australia and six from New Zealand workers.

One hundred and twenty requests for identification of plants came in by mail, and identifications have been supplied for the Education officers as required.

In May, 1948, the Auckland City Council built a scree garden in the ornamental pots in the two open courts at the Museum. At present there are 62 species of native plants in the garden and 22 have flowered.

The 13th Annual Cheeseman Memorial Show of Native Flowers was opened by Mrs. V. J. Chapman on Saturday, 25th September, and continued until the following Wednesday. Visitors to the show numbered 5,000, including primary and secondary school classes, and stage 1 botany classes from Auckland University College. The adult section of the show was smaller than in past years, but included exhibits arranged or sent by the Auckland Botanical Society, the Forest and Bird Protection Society, the Titirangi Beautifying Society, the Wellington Botanical Society, the Levin Native Flora Club, Massey College, Canterbury College and Otago University. Fifty friends and societies contributed material for the show and 500 children took part. The children's exhibits, which were most competently organised by Miss Lloyd, Education Officer, and Miss Hurrey, filled the Cheeseman and Geology Halls. The generous response to an appeal for funds made it possible to provide prizes for the children's section, meet most of the expenses, and purchase some permanent fittings for future shows.

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In September a leaflet on plant collecting was prepared for the educational pamphlet series, and in December another on hemlock was completed. Auckland University College has purchased copies of the former for stage Stage I botany students and the Education Board has taken 2,000 copies of the hemlock leaflet for schools in the district.

A meeting of the Scenery Preservation Committee was held in November, and recommendations regarding exotic pines and animals on Rangitoto, the purchase of Le Roy's Bush, Birkenhead, and the protection of outlying islands were made.

Miss S. A. Rose has continued part-time work in the herbarium under the scheme for student assistants, and Miss J. Macky has been employed part-time since December rearranging botany displays.

ROBERT COOPER.

Ornithologist and Entomologist

The incorporation of new specimens and maintenance of the collections have taken up much of the year, but it has been possible in the course of routine work to effect a marked improvement in the accessibility of the material in the department. Particular reference amongst a considerable list of additions might be made to a specimen of the Weddell seal, a rare visitor to New Zealand from Antarctic waters, which came ashore on Muriwai Beach in August.

There have been requests for loan or facilities to examine research material of a number of groups, including Orthoptera, Hemiptera, Isoptera, New Zealand lizards, birds and introduced mammals. In addition, research has been undertaken by Dr. J. T. Salmon and Mr. R. R. Forster upon part of the field collections from the Three Kings Islands, thirteen new insects and two new Opiliones being described in the "Records" this year.

With the co-operation of officers of the Department of Agriculture and Plant Diseases Division, nests and specimens of the rapidly-spreading European wasp have been obtained for display.

In October the Museum field trip in the motor vessel "Alert" to the Three Kings Islands enabled a visit to be made to Great Island, the short period of four hours ashore being devoted to photographing the quadrats established in 1946. Notes on the birds observed have been published as an appendix to the paper

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on the birds of the Three Kings. Additional work for the Three Kings issue of the "Records" has been devoted to details of the map of the group.

Sixteen lectures during the year include eight as part of a course on "Field Biology" given jointly with Miss R. de Berg and Mr. Powell. Subjects covered by the general lectures include conservation, and New Zealand birds and insects.

This year members of the Auckland Section of the Forest and Bird Protection Society again co-operated in preparing two attractive displays for the Cheeseman Flower Show, one on the economic value of birds and the other on garden refuges and sanctuaries, these exhibits being designed and set up by Mr. Robin A. Watson.

Colour film was used in recording stages in the growth of a young pigeon on Mr. T. A. Bishop's property at Titirangi. Major Buddle has made a colour film of sea birds off the Auckland coast as a joint project with the Auckland Zoological Society.

A paper entitled "Distribution and Speciation in Land Birds on Offshore Islands, Northern New Zealand," was contributed to the Zoology Division during the Seventh Pacific Science Congress. In preparation for the Congress an article was prepared for the Auckland handbook. Notes were compiled and special arrangements made for an intersessional tour, for overseas visitors who were accompanied as host-guide; and week-end excursions were conducted in Auckland. The opportunity of participating in the sessions at Auckland and Christchurch and of meeting visiting colleagues has been thoroughly appreciated.

E. G. TURBOTT.

Geologist

During the past year attention has been given to modifying the geology displays along the lines mentioned in last year's report. An introductory panel showing the three chief kinds of rocks has been set up as part of a simplified introductory case to the Geology Hall. A complete case has been devoted to a display on the active volcanoes of New Zealand, prepared with the assistance of Miss I. H. Pirie, and the work on a further case dealing with the natural history and uses of limestone is partly finished. A copy of the new geological map of New Zealand (presented by the Geological Survey) has been mounted, together with earlier maps of Sir J. Hector and Prof. J. Park, to show the progress of the geological mapping

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of New Zealand over 65 years. It is hoped to extend this display with further earlier maps of the country.

A relief model map of Auckland Province, on a scale of 4 miles to the inch, is in preparation, the first section, from North Cape to the Waikato, being about half finished. Relief models showing the evolution of topography, and land forms in general, would form a valuable addition to the displays and would illumine an aspect of geology of universal appeal that is so far untouched. The present cases, however, are not suited to the exhibition of such models, which will require to be placed in table cases.

Two cases for circulation to schools have been prepared for the School Service and, finally, repairs and renewals to existing displays have been carried out from time to time.

A number of field trips have added valuable material to the collections. Nine days were occupied in a visit to the Three Kings Islands and the north-eastern coast of New Zealand made possible through the courtesy of Mr. A. Black, owner of the motor launch "Alert." Sixteen days were spent at Rangiawhia Peninsula extending the work initiated there last year. A brief but intensely interesting trip was made on Friday and Saturday, February 11-12, to Ngauruhoe, where the Museum party was the first to establish the existence of New Zealand's first historic lava-flow, and to secure photographs of the flow in motion. During a further visit, in March, a plane-table survey of the flow and its surroundings was executed by Miss M. Hurrey and Mr. A. P. Mason, an undertaking made possible by the loan of survey equipment from the Lands and Survey Department and the Army Department, to whom grateful thanks are extended.

These excursions have, as has been mentioned, enriched the collections with much valuable and interesting material, but the study and classification of the material is greatly hampered by our present lack of equipment; in particular, the much-needed petrographic microscope has not yet arrived from England. Professor Bartrum has again kindly permitted the use of instruments at the University College, but this equipment is generally very fully employed by the students. It is earnestly hoped that this difficulty will be overcome within a few months, so that a beginning can be made with the fulfilment of the essential purpose for which the rock collections have been made.

At the invitation of the Director of the N.Z. Geological Survey I attended the 4th annual conference of the Survey at Rotorua in May. Stimulating discussions were held and a valuable and much-

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appreciated opportunity afforded to learn of the recent advances in research made by the department.

Attendance at the Seventh Pacific Science Congress was, of course, one of the highlights of the year's activities. Not only were the proceedings of the Geology Section of the greatest interest and importance, but the symposia conducted jointly with other sections —particularly that of Oceanography—brought out the inter-relationships of these branches with sharp clarity, while personal contact with the leaders of thought in a number of fields was a source of inspiration.

As a result of the unfortunate illness which prevented Professor Bartrum from resuming his duties at the beginning of the academic year I have been temporarily conducting the Stage III course of geology at the University College since the opening of the College term. In view of its regrettable cause, it is to be hoped that the necessity for this activity will not long continue. Apart from this, four lectures have been given during the year. Enquiries on geological matters have been dealt with as usual, and are welcomed for the interest they indicate in the subject in the community.

M. H. BATTEY.

Education Officer

The following is a summary of the number of children having attended one-hour lessons for the year ended 31st March, 1949:

	Primary	Intermediate	Secondary	Special	Total
31/3/48—End of Term ..	182		28		210
Term II, 1948	12,610	2,001	650	64	15,325
Term III, 1948	6,968	703	1,435	156	8,362
1/2/49-31/3/49	1,909	1,558	1,647	20	5,134
	20,769	4,262	3,760	240	29,031

Despite the fact that the schools were closed for most of the first term, 1948, due to the epidemic and the reduction in the number of Training College students, the attendances increased to 29,031.

The following material has been circulated among schools:

77 permanent glass-fronted cases

83 leatherlite boxes each containing a mounted bird

11 boxes of loose material with notes and photographs

19 displays for school museums

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This material has been sent to 55 town schools and 137 country schools, and there are 141 schools requesting material which cannot be supplied owing to the lack of prepared displays. The Education Department made a grant of £150 for materials and transport of displays.

Four hundred and fifty new slides have been prepared and 100 rebound, and 14 question sheets made to assist in class teaching.

It is essential that a technical art assistant be appointed to the museum educational staff if the supply of prepared material is to keep pace with the demand for it from the schools. Natural history material has been identified for teachers and children throughout the Auckland Province.

Schedules of the Cheeseman Memorial Prize Competition were printed in the "Star" and "Herald" during the first term and sent to all schools in the Auckland Province when schools re-opened. There were 48 entries and the standard of work is steadily rising. Schedules for the Cheeseman Memorial Spring Show of Native Flowers were sent to all schools in the Auckland Province, and great enthusiasm was shown, children and teachers coming from as far as Thames and Whangarei. There were 32 school entries in table exhibits and 457 individual entries. Schedules for the 1949 Cheeseman Memorial Prize Competition were sent out in December to all schools in the Auckland Province.

Under the very able guidance of Miss M. L. Hurrey, Assistant Education Officer, a natural history club was formed when schools re-opened. The response of the children was so keen that 72 children joined, thus necessitating the splitting of the club into three groups—junior, intermediate and senior—each of which met once a month on Saturday mornings. There have been 21 meetings altogether, one of which was a full day field excursion to the Waitakere Ranges for the senior club.

Children's film sessions were held on six mornings during the May holidays and during the August holidays. The number of children attending totalled 4,546.

This year 50 Training College students have been posted to the Museum for teaching practice. The students are of great help in conducting the children round the displays. The graduation students of Training College and all first year students spent a morning at the Museum with the Education Officer, as also did all kindergarten directors and students.

The Museum Educational Staff wishes to thank the staff of the Museum for their co-operation and very real assistance.

ZOE O. LLOYD.

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Librarian

During the year a record number of books and pamphlets have been added to the Library. Of the total number of 1615, over 1,200 were purchased from the Edward Earle Vaile Trust Fund, 110 from the Mackechnie Fund, and nearly 300 were received by donation. The most important purchase was that of the private library of Mr. Johannes C. Andersen consisting of works chiefly relating to New Zealand. Included in this collection are typescript copies of diaries and letters of some of the prominent figures of early New Zealand. The purchase of this valuable collection was made possible by the Edward Earle Vaile Trust Fund, from which also the Library has continued to acquire, through overseas firms, rare works on New Zealand and the Pacific.

We have been fortunate in receiving a large number of donations. Sir Cecil Whitney donated £10 for the purchase of books on birds, Miss E. M. Upton and Miss E. M. Stevenson have continued to pay the subscriptions to three periodicals, and Mr. J. C. Entrican has donated his books on coins. It is not possible to mention individually all the donations we have received, but we are very grateful indeed to the above persons, and also to the following for gifts of money, books or periodicals: Hon. T. Bloodworth, Dr. W. N. Abbott, Dr. Coverdale, Dr. G. Gentili, Dr. J. Hardie Neil, Dr. R. M. S. Taylor, Rev. C. J. Bush-King, Rev. D. D. Scott, Mr. R. C. Clark, Mr. R. Cooper, Mr. S. Evans, Mr. W. A. Fairclough, Mr. C. R. Ford, Mr. T. A. Chappé Hall, Mr. R. Noel Johnson, Mr. H. Kemp, Mr. W. S. Lang, Mr. V. W. Lindauer, Mr. T. W. Mellor, Mr. M. Rosenfeldt, Mr. A. I. Ross, Mr. R. A. Stone, Mr. E. G. Turbott, Mr. F. A. Smith, Mr. W. Laird Thomson, Mr. E. H. Walker, Mrs. M. Brien, Mrs. Brownlie, Mrs. J. Dawson, Mrs. B. Hancock, Miss Bell, Miss H. Bent, Miss Cozens, Miss M. L. Darling, Miss C. Gray, Miss M. Hurrey, Miss A. M. McCaul, Miss F. Ormond, Miss M. C. Wheelwright.

Increasing use is being made of the library. Nearly 3,000 books were borrowed during the year, a 7% increase over last year's figures, and a 50% increase over those of 1947. Requests from other libraries through the interloan system numbered 129, 114 of which were fulfilled; 41 requests were made for books from other libraries for members. Postal borrowings by country members numbered 73.

Exchanges are being maintained with institutions throughout the world. Requests for *Bulletins* and *Records*, with offers of publications in exchange, are continually being received, and much valuable material is being acquired in this way.

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Cataloguing of the existing collection, as well as of new books, has continued. During the year, 1650 books were catalogued, thus completing the cataloguing of the main collection and a portion of the New Zealand collection. Much work has still to be done, and the increasing volume of current work will delay this; but for 7,000 books of the library's stock, cards are in the catalogue under author and subject, each card giving the location number of the book. This should facilitate use of the library, and help to make its resources more accessible.

Displays were arranged throughout the year. In August the Botanical Society held an afternoon at the Museum, and a special display of botanical works was arranged. Books loaned by the National Library Service were displayed at the Cheeseman Memorial Flower Show in September. In May the National Library Service sent on loan for some months over 200 American periodicals, and many of these were displayed. In connection with the Pacific Science Congress, a display case was set up illustrating the history of Pacific exploration. Smaller displays on different topics of interest were arranged at intervals throughout the year.

ENID A. EVANS.

AUCKLAND INSTITUTE AND MUSEUM

RECEIPTS AND PAYMENTS ACCOUNT

For the Year Ended 31st March, 1949.

	£	s.	d.
To Balance	1,735	16	10
,, Subscriptions	553	4	0
,, Subscriptions in Advance	33	1	6
,, Life Subscriptions	178	10	0
,, **Interest—**			
Mortgages	89	4	10
Debentures	187	0	0
Government Stock	762	17	8
Australian Stock	58	11	11
,, Local Body Contributions	10,668	0	6
,, Sundry Receipts	34	12	10
,, Savings Bank Interest	261	6	11
,, Sale of Transactions	13	7	4
,, Sale of Publications—Reserve Account	1,149	16	2
,, E. P. Mitchelson Estate	1,000	0	0
,, A. V. Hanson Estate	789	0	1
,, C. V. Houghton Bequest	3	1	10
,, Rents from E. E. Vaile Properties Trust	2,144	11	6
,, **Receiver of Land Revenue—**			
Sales	115	6	8
Rent and Interest	18	14	8
,, Mortgages—Reduction, Principal & Repayment	2,055	16	6
,, Cash Received but not Refunded	18	2	0
,, **Contributions—**			
Specimens Purchase	73	10	7
Memorial Hall Account	24	0	11
,, Special Donations	98	19	9
,, Education Schoolroom Grant	450	0	0
,, **Transfers—**			
Reserve, Roof Repairs—E. E. Vaile Trust	400	0	0
Sale of Books—E. E. Vaile Trust	27	0	3
Library Shelving Reserve	87	0	0
	£23,030	15	3

	£	s.	d.
By Salaries and Wages	9,052	12	3
,, Insurance	66	3	7
,, Library Expenses	118	13	4
,, Library Books	224	4	6
,, Institute Expenses	233	11	3
,, **Specimens—**			
Purchase	518	1	2
Collecting and Travelling	270	9	11
,, Preserving and Display	201	11	1
,, School Services, Education, Prizes	97	14	9
,, Publications, Photos	466	17	2
,, Publications Reserve Account	517	5	4
,, General Maintenance	812	13	3
,, **Buildings—**			
Maintenance	606	10	4
Show Cases and Furniture	154	4	2
,, Auckland Museum Maintenance Amendment Act, 1931 (Section 37)—			
Entertainment, Wreaths	11	19	9
,, Contribution to Purchase of Le Roy's Bush	10	0	0
,, Sundry Payments to be Refunded	42	10	1
,, **Edward Earle Vaile Trust Fund—**			
Specimens Purchased	209	12	0
Library Books Purchased	1,366	0	6
Outgoings on Properties	625	9	6
Obsolescence Fund Account, 1948-49	100	0	0
Balance Unexpended, 1948-49	270	9	9
,, **Transfers—**			
Investment Account	2,079	0	0
Life Subscription Account	178	10	0
Specimen Purchase Account	73	10	7
Memorial Hall Account	24	0	11
Museum Endowment Account	115	6	8
Building Reserve Account	100	0	0
Publications Reserve Account	632	10	10
E. P. Mitchelson Estate Bequest	1,000	0	0
A. V. Hanson Estate Bequest	789	0	1
C. V. Houghton Bequest	3	1	10
Education Schoolroom Account	450	0	0
,, Balance	1,669	1	2
	£23,030	15	3

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INCOME AND EXPENDITURE ACCOUNT

For the Year Ended 31st March, 1949.

EXPENDITURE.	£ s. d.	INCOME.	£ s. d.
Salaries and Wages	9,052 12 3	Subscriptions	627 7 6
Insurance	66 3 7	Interest—Mortgage, Debenture, Stock	1,216 10 8
General Maintenance	812 13 3	Life Members' Subscriptions	178 10 0
School Services, Education, Prizes	97 14 9	Contributions from Local Bodies	10,668 0 6
Publications, Photos	466 17 2	Sundry Receipts	34 12 10
Institute Expenses	233 11 3	Sales of Transactions	13 7 4
Unauthorized Expenditure—		Auckland Savings Bank Interest	23 18 5
Entertainment, Wreaths	11 19 9	Post Office Savings Bank Interest	3 2 1
Contribution to Purchase of Le Roy's Bush	10 0 0	N.Z. National War Savings Investment Interest	232 6 5
Building Maintenance	606 10 4	Rent—Receiver of Land Revenue	18 14 8
Subscriptions Written Off	21 0 0	Memorial Hall and Specimen Purchase	97 11 6
Balance Carried Down	1,835 19 4	Special Donations	98 19 9
	£13,215 1 8		£13,215 1 8
Capital Purchases from Revenue	1,340 3 8	Balance Brought Down	1,835 19 4
Appropriations—			
Buildings Reserve Account	100 0 0		
Life Members' Capital Reserve Account	178 10 0		
Memorial Hall Trust Account	24 0 11		
Specimen Purchase Account	73 10 7		
Balance, 31/3/49	119 14 2		
	£1,835 19 4		£1,835 19 4

EDWARD EARLE VAILE TRUST FUND.

	£ s. d.		£ s. d.
To Ethnological Specimens Purchased	209 12 0	By Gross Rents Received to 31/3/49	2,259 9 0
,, Library Books Purchased	1,366 0 6	,, Reserve for Roof Repairs (Transfer)	400 0 0
,, Obsolescence Fund, 1948-49	100 0 0		2,659 9 0
,, Balance Unexpended, 31/3/49	278 15 5	Less Commission £84 7 9	
		,, Insurance 51 7 6	
		,, Sundries 7 14 6	
		,, Repairs 411 2 0	
		,, Rates 185 15 3	
			740 7 0
		Nett Revenue	1,919 2 0
		Balance Unexpended, 1947-8	8 5 8
		Sale of Books	27 0 3
	£1,954 7 11		£1,954 7 11

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EDWARD EARLE VAILE TRUST FUND.

Balance Sheet as at 31st March, 1949.

	£ s. d.		£ s. d.
Capital Account	£40,000 0 0	Properties Valued At	£40,000 0 0

MUSEUM ENDOWMENT ACCOUNT.

	£ s. d.		£ s. d.
To Balance, 31/3/49—		By Balance, 1/4/48—	
Investments	13,939 3 3	Investments	13,800 4 2
Cash at Bank	44 10 11	Cash at Bank	68 3 4
			13,868 7 6
		,, Sales—Receiver of Land Revenue	115 6 8
	£13,983 14 2		£13,983 14 2

LIFE MEMBERS' SUBSCRIPTIONS ACCOUNT.

	£ s. d.		£ s. d.
To Balance, 31/3/49—		By Balance, 1/4/48—	
War Savings Investments	2,078 3 3	War Savings Investments	2,022 10 0
Investments	1,689 18 2	Investments	1,567 1 5
		,, Transfer from Income and Expenditure A/c ..	178 10 0
	£3,768 1 5		£3,768 1 5

ACCUMULATING ENDOWMENT ACCOUNT.

	£ s. d.		£ s. d.
To Balance, 31/3/49	392 5 0	By Balance, 1/4/48	388 18 10
		,, Interest to 31/3/49	3 6 2
	£392 5 0		£392 5 0

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MACKECHNIE BEQUEST ACCOUNT.

	£ s. d.		£ s. d.
To Balance, 31/3/49	8 3 3	By Balance, 1/4/48	7 14 9
		,, Interest to 31/3/49	8 6
	£8 3 3		£8 3 3

SIR JAMES GUNSON TRUST ACCOUNT.

	£ s. d.		£ s. d.
To Balance, 31/3/49	32 12 2	By Balance, 1/4/48	31 16 8
		,, Interest to 31/3/49	15 6
	£32 12 2		£32 12 2

MEMORIAL HALL TRUST FUND.

	£ s. d.		£ s. d.
To Balance, 31/3/49	657 12 1	By Balance, 1/4/48	621 18 1
		,, Interest to 31/3/49	11 13 1
		,, Transfer from I. and E. Account	24 0 11
	£657 12 1		£657 12 1

SPECIMEN PURCHASE FUND.

	£ s. d.		£ s. d.
To Balance, 31/3/49	520 13 2	By Balance, 1/4/48	433 11 7
		,, Interest to 31/3/49	13 11 0
		,, Transfer from I. and E. Account	73 10 7
	£520 13 2		£520 13 2

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AUCKLAND INSTITUTE AND MUSEUM

BALANCE SHEET AS AT 31st MARCH, 1949.

LIABILITIES.

	£ s. d.	£ s. d.
Capital Account as at 31/3/48	443,326 18 3	
Add—		
Capital Purchases from Revenue	1,340 3 8	
Capital Purchases from Reserves	1,635 12 3	
		446,302 14 2
Endowments—Fixed:		
Costley Bequest	7,700 0 0	
Mackechnie Bequest	2,000 0 0	
Campbell Bequest	1,000 0 0	
Herries Bequest	1,000 0 0	
Shaw Bequest	1,000 0 0	
Goldie Bequest	1,000 0 0	
Marshall Bequest	550 0 0	
Harding Bequest	500 0 0	
Nathan Bequest	100 0 0	
Fond Cheeseman Bequest	100 0 0	
Gore Adams Bequest	100 0 0	
Mitchelson Prize Fund	100 0 0	
Houghton Bequest	527 16 9	
Cinematography Trust Fund	2,000 0 0	
Auckland Savings Bank Trust Fund	5,500 0 0	
A. V. Hanson Bequest	789 0 1	
E. P. Mitchelson Bequest	1,000 0 0	
		24,966 16 10
Endowments—Increasing:		
Museum Endowment	13,983 14 2	
Reserve for Depreciation of Investments	377 11 8	

ASSETS.

	£ s. d.	£ s. d.
Buildings		206,222 16 1
Edward Earle Vaile Properties Trust—		
Properties valued at		40,000 0 0
Furniture and Fittings—		
1st April, 1948	22,920 15 5	
Additions	154 4 2	
		23,074 19 7
Collections—		
1st April, 1948	162,063 2 8	
Additions	1,139 14 2	
		163,202 16 10
Library Books—		
1st April, 1948	12,120 4 1	
Additions	1,681 17 7	
		13,802 1 8
Investments—		
Mortgages	1,529 0 3	
Debentures	4,531 0 2	
N.Z. Government Inscribed Stock	31,262 18 2	
N.Z. War Savings Investments	8,811 1 5	
Australian Commonwealth Stock	1,982 10 0	
		48,116 10 0
Sundry Debtors—		
Subscriptions	129 7 6	
Interest Accrued	119 19 3	
Book Debt	42 10 1	
		291 16 10
Cash—		
Bank of New Zealand	469 4 5	

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Life Membership Subscriptions	3,768 1 5			Post Office Savings Bank	224 16 6	
Accumulating Endowment (Ambury Bequest)	392 5 0			Auckland Savings Bank	4,175 5 2	
		18,521 12 3		Cash in Hand	10 0 0	
Reserves—				Change	1 10 0	
Building Maintenance	4,373 5 5					4,880 16 1
Gunson Specimen	32 12 2					
Leys' Fund for Ethnographical Specimens	102 10 0					
Memorial Hall	657 12 1					
Specimen Purchase	520 13 2					
Mackechnie Library	8 3 3					
Horton Geology Fund	124 12 6					
Library Shelving	35 4 10					
Cases for White China	10 10 0					
Donation for Purchase of Swords	10 0 0					
Edward Earle Valle Properties Trust—						
Obsolescence Fund	400 0 0					
Balance Revenue Account	278 15 5					
Publications Reserve Account	835 17 0					
Education Schoolroom Grant	450 0 0					
		7,839 15 10				
Sundry Creditors—						
Subscriptions in Advance	33 1 6					
Sundry Creditor	18 2 0					
		51 3 6				
Income and Expenditure Account—						
Balance, 1/4/48	1,790 0 4					
Add Credit Balance, 31/3/49	119 14 2					
		1,909 14 6				
		£499,591 17 1				£499,591 17 1

GILBERT ARCHEY,
Treasurer.

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List of Benefactions

made to the

Auckland Institute and Museum

of an amount (or value) exceeding £50.

MONETARY GIFTS.

1876 **Auckland Citizens:** £2,026 subscribed towards first building.
1878 **Mr. J. C. Firth** donated £106 for show cases.
1884 **Mr. Edw. Costley** bequeathed £12,150.
1887 **Mr. David Nathan** bequeathed £100.
1897 **Mr. T. Russell** donated £100 for geological specimens.
1901 **Auckland Citizens** subscribed £1,000 for Mair Collection.
1902 **Mr. E. A. Mackechnie** bequeathed £2,500.
1906 **Auckland Citizens** subscribed £662 for carved houses.
1911 **Auckland Citizens** subscribed £684 for ancient carvings.
1913 **Sir John Logan Campbell** bequeathed £1,000.
1921 **Institute Members** subscribed £115 for Temple Bronzes.
1923 **Sir Wm. H. Herries** bequeathed £1,000.
1924 **Citizens** subscribed £698 for Maori collections.
1925 **Institute Members** subscribed £109 for Maori collection.
1926 **Sir James Gunson Presentation Committee** presented £118 for Maori collection. **Mr. David Goldie** bequeathed £1,000.
1927 **Mr. F. Shaw** bequeathed £1,000.
1929 **Mr. S. J. Ambury** bequeathed £250.
1934 **Mrs. R. M. Wilson:** £50/10/-, given to establish the Sir Edwin Mitchelson Prize Fund.
1940 **Mr. Maurice Harding** bequeathed £500.
1941 **Mr. Ormsby Gore Adams** bequeathed £100.
1942 **Mr. J. A. Pond** bequeathed £100 to commemorate the scientific achievements of Thomas F. Cheeseman.
1944 **Mr. E. Earle Vaile** gave two blocks of shops and residences worth £10,000 as an endowment for ethnological collections and books.
Mr. R. C. Horton gave £200 towards extending the mineral collection.
"Two Friends" gave £150 for Library book-cases.
£428 received on account of a bequest by **Mr. C. V. Houghton.**
Mitchelson Prize Fund increased to £100.
1945 **"Anonymous"** gave £2,000 as an endowment for Cinematography.
Auckland Savings Bank gave £500 for improvements to Exhibition Halls.
Auckland Electric Power Board gave £100.
Mr. R. C. Horton gave £70 for purchase of Georgean Silver Tea Set.
1947 **Auckland Savings Bank** Centennial Gift of £5,000.
Mr. A. V. Hanson bequest of approximately £1,500.
1948 **Mr. E. P. Mitchelson,** bequest of £1,000.

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SPECIMENS AND BOOKS.

1876 Mr. R. C. Barstow: Large collection of Maori articles.

1877 Mr. G. F. Edmonston: 564 volumes of scientific works.

1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.

1878–83 Mr. J. T. MacKelvie: 390 books and ethnology collection.

1887 Mr. C. O. Davis: Valuable Maori collection.

1901 Mr. L. D. Nathan: Japanese Shinto Shrine.

1913 Mr. Henry Shaw and Mr. F. Shaw: 172 scientific books. Hon. Sir Edwin Mitchelson: Valuable Kauri Gum collection.

1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.

1916 Mr. Henry Shaw: Collection of Japanese art.

1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection

1919 The Misses Yates: Collection of Indian weapons.

1920 Mr. James Dunning: Collection of North American Mammals.

1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection.

1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.

1924 Mr. Wm. Sutherland: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group. Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles. Sir Cecil Leys and Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.

1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.

1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
Mr. Hallyburton Johnstone: Silver cup presented by Queen Victoria in 1878 to the Royal George Yacht Club.

1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnograpical specimens.

1928 Sir Cecil Leys and Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.

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1929 **Mr. T. H. Barstow:** Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
Rev. W. H. Webster: Large collection of mollusca.
Mr. C. E. Clarke: Large collection of N.Z. Insects.
Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.
Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.

1930 **Mr. John Kenderdine:** Large collection of books and pamphlets, including rare early New Zealand works. **Mr. H. E. Vaile:** A large collection of Maori implements and greenstone ornaments. **Mr. Moss Davis:** Selected Maori exhibits; also porcelain and ivory. **Mr. L. J. Matthews:** Two specimens of Moa eggs. **Dr. L. Cockayne:** Large collection of N.Z. plants.

1931 **Sir Cecil Leys** and **Mrs. Selwyn Upton:** Valuable Maori antiquities; additions to the Dr. T. W. Leys collection. **Mrs. S. J. Lushington:** Collection of Silver and Sheffield Plate. **Mrs. A. C. Lennard:** Collection of English porcelain.

1932 **Mr. H. S. Dadley:** Large and valuable collection of Oriental Arts. **Mr. Moss Davis:** British Gold and Silver Coins and European Ivories and Bronzes. **Hon. Sir James Parr:** Gold and Silver Mementoes of public events in New Zealand, and case for their display.

1933 **Vaile Collection:** Additional gift of many valuable Maori antiquities. **Mr. W. Goodfellow:** Extensive ethnographical collection from Northern Melanesia.

1934 **Miss Eleanor Brown** and **Mrs. Geo. Brownlee:** Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes.
Messrs. R. B. & G. Matthews: The H.B. Matthews Herbarium.

1935 **Mr. F. Crossley Mappin:** Maori Specimens, including handsomely carved sternpost.
The Admiralty: Model of H.M.S. New Zealand.

1936 **Captain G. Humphreys-Davies:** Large and valuable collection of Chinese pottery figures. **Mrs. T. G. Russell:** 235 volumes of chemical and physical works from the library of her father, the late Professor Brown. **Mr. E. Earle Vaile:** Valuable Maori hei-tiki and Rapa Island stone artifacts. **The Estate of the late H. E. Vaile:** Maori and Polynesian ethnographical collection; carvings and ornaments.

1937 **Mr. E. Earle Vaile:** Collection of ethnographical specimens and six Italian bronzes. **Sir Algernon Thomas:** Library of scientific books and papers.

1938 **Mr. E. Earle Vaile:** Gift of many early New Zealand books and journals. **Mr. J. R. le B. Tomlin:** Gift of valuable early editions of natural history works. **Mr. F. Crossley Mappin:** Early Chinese Pottery and Bronzes.

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1939 **Mr. E. Earle Vaile:** Maori carvings, large Melanesian collection and gifts to the Library. **Mr. J. R. le B. Tomlin:** Gift of early Worcester china and early works on natural history. **Mr. W. Goodfellow:** Large Melanesian collection.

1941 **Mr. H. R. Jenkins:** Historic anchor associated with the ill-fated H.M.S. Bounty. **Mrs. T. G. Russell:** 500 volumes of botanical and biographic works from the library of her father, the late Professor Brown.
Mr. Ormsby Gore Adams bequeathed cinema camera, photographic equipment and nature films.

1942 **Mrs. A. A. Richardson:** The late Mr. J. D. Richardson's extensive collection of early Auckland photographs and lantern slides.
Col. the Hon. F. Waite, D.S.O., M.L.C.: Large collection of Egyptian pre-dynastic artifacts, flints, slate palettes, and pottery 7500-4300 B.C.; also pottery lamps of Egyptian, Roman, Greek and Arabic manufacture.

1943 **Captain G. A. Humphreys-Davies:** His extensive and valuable collection of Chinese arts. **Mr. E. Earle Vaile:** Large collection of books and pamphlets on exploration and early life in the South Pacific. **Mrs. W. H. Hemingway:** The late Mr. Hemingway's display and cabinet collections of insects. **Lt. Col. the Hon. F. Waite, D.S.O., M.L.C.:** Further collections from Egyptian Pre-dynastic, Dynastic and Ptolemaic periods.

1944 **Mrs. B. Quigley and Miss E. Kenderdine:** Large number of books on early New Zealand history. **Mr. E. Earle Vaile:** Collection of works on South Pacific exploration and New Zealand history. **Captain G. A. Humphreys-Davies:** Ancient Chinese bronze sculpture. **Mr. J. C. Entrican:** Large collection of Eastern Polynesian stone implements.

1945 **Mr. W. G. White:** A valuable very representative collection of Worcester and Chelsea China. **Mr. E. Earle Vaile:** Important Maori Ethnographical Collections, and books on South Pacific Exploration and New Zealand History.

1946 **Mr. E. Earle Vaile:** Gave a freehold section with a two-storey building in Queen Street worth over £30,000 as a further endowment for ethnographical collections and books.

1947 **Lady Leys Fund, Sir James Gunson Fund, and E. Earle Vaile Fund:** Collection of 60 greenstone hei tiki and greenstone adzes purchased in England.
Mr. Jas. C. Entrican: Gave his extensive moneys collection and library of books on Numismatics.
Mr. Geo. Finn: Presented a collection of books and newspaper records, reports and illustrations collected over a number of years.
Lieutenant A. G. Carnahan, R.N.R.: Presented Viscount Jellicoe's racing 14-footer "Iron Duke."

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ACCESSIONS, 1948-49.

Mr. L. R. Allen: Collection of rock specimens.
Mrs. H. H. Battey: Three specimens of Rhyolite.
Dr. G. T. S. Baylis: Alpine plants for scree garden.
Mr. Andrew Bell: Collection of Maori ethnographical specimens.
Mrs. H. E. Bell: Claymore used in Battle of Brackenbridge, 1314.
Mr. W. L. Beloe: Seven stone adzes.
Mr. R. G. Bennett: Box of Congrave matches.
Mr. J. R. Benney: Metal baton used by the Armed Constabulary.
Miss H. Bent: One white woven quilt; four whale-bone riding whips.
Mr. A. Bickell: Golden cross Amherst pheasant.
Mr. J. R. Boscawen: Peacock.
Mr. R. N. Brothers: Ammonites, and granitic pebbles.
Mr. W. Browne: Stone flax beater.
Mr. M. Buckley: Baked claystone and possible parent material.
Mr. H. J. Burdon: Set of Japanese occupation currency.
Mr. J. L. Burrows: Greenstone adze.
Mr. J. W. Campbell: 12 microscope mounts of N.Z. Blepharoceridae.
Prof. V. J. Chapman: 5 spp. timber from inland dunes; type material of algae.
Mrs. D. Charles: South African ethnographical specimens.
Mrs. Charters: Two Coptic figures.
Mr. T. E. Chismon: Collection of coins and medals.
Dr. W. W. Christie: Bone mere.
Mr. R. C. Clark: Shell-covered garment, Tonga.
Mr. W. A. Clinton: Pair of Chinese woman's shoes.
Mrs. W. H. Cocker: Collection of Melanesian specimens.
Miss S. M. Coney: Calcareous concretions produced by green alga.
Mr. V. J. Cook: Five species plants.
Miss Cozens: Collection of Micronesian and Niue Island specimens.
Mr. G. T. Crawley: Unfinished stone adze and stone chisel.
Mr. C. D. C. Creagh: Rock with shell impressions, sub-recent; small bone fish hook shank.
Mrs. F. Cumming: Saddle bags, Near East.
Miss M. L. Darling: Lady's folding glasses.
Miss K. V. Dellow: Three photographs of rock pools.
Mr. A. A. Dignan: War medals of Maurice M. Dignan.
Dominion Museum: Cast of bone tiki and wax model of whale tooth one-piece hook.
Mr. D. Done: Australian Forces notice calling on Japanese to surrender, in Japanese and Pidgin English.
Mr. Nelson Dyett: Collection of stone implements from Pitcairn Island.

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The late Mr. Selwyn Edwards: Obsolete types of electric lamps.

Mr. C. W. Firth: Papakura lime-tone, greenish fine conglomerate, hydraulic limestone and green sandstone.

Mr. M. E. Fitzgerald: Budgerigar and other aviary birds.

Miss Briar Gardner: Twenty vases.

Brother Eric Gnokro: Club once owned by a chief of the Reef Islands.

Mrs. John Graham: Large flower-painted scarf made in court of Charles II: 11 sheets of pressed red algae from Chatham Islands.

Mr. J. M. Hall: Old canoe bailer from Kopu river.

The late Mrs. Louis Hardie: English clock.

Mr. G. Hedditch: One pound bank note, Newark Bank, 1809.

Mrs. W. H. Hemingway: Collection of Australian ethnographical specimens; box of shells; entomological cabinets and collecting material.

Mrs. Herman: Silver watch—Chester, 1785.

The late Mr. Joseph Hibbs: New Zealand tokens and other bronze coins.

Mr. J. Hilliard: Three turtle shell nose ornaments, Ontong Java.

Mr. T. R. Hogarth: Greenstone toki and drill point.

Crew of the M.V. "Ikatere": Rattan-bound axe haft from New Guinea.

Superintendent of Parks, Invercargill: *Gunnera hamiltoni* and *G. prorepens*, plants for the scree garden.

The Isaacson Family: 30 sheets of pressed plants.

Mr. Robert L. Jacks: Model fireplace made by the Smiths of Carron Iron Co., Falkirk, c. 1800.

Miss Bessie James: Examples of English domestic art and by-gones.

Master Andrew Johns: Bow and five arrows, Solomon Islands.

Mr. F. Jollie: 19 species alpine plants.

Mr. E. F. Jones: Collection of coins.

Mrs. E. Kean: Ceremonial hat and badges, 9th N.Z. Garrison Artillery.

Mrs. L. Keene: Carved wooden comb.

Mr. H. R. Kennedy: Two stone hammers.

Miss Diana Kent: Cloisonne vase, Chinese.

Mrs. A. M. Kibble: Silver coins and examples of English domestic art and by-gones.

Dr. A. Koperberg: Javanese wall pictures and ethnographical specimens.

Mr. S. Kronfeld: Cap band of H.M.S. "New Zealand."

Mrs. L. B. Laird: Indian feather pictures of birds.

Mr. V. W. Lindauer: Fascicle XIII, Algae nova-zelandicae Exsiccatae.

Mrs. Hamilton Lindesay: Silver coin found near Agholl Churchyard, near Arddyne; Iron with a cluster of "Irish Diamonds" found in a rath or harrow, Tullow, Co. Wicklow.

Mrs. A. Lloyd: Two framed "London Cries" and other by-gones.

Mr. B. Long: Wooden fern-beater.

Mr. Longshore: Wooden fern-beater.

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Mrs. L. R. Lord: English pound note, 1822; English guinea notes, 1820; and Uruguay peso (dollar note).

Miss Ellen Lush: Shell-inlaid food bowl given to Bishop Selwyn, from Solomon Islands.

Mr. A. Makgill: Mass of pigiron and two pieces of slag, from early attempt to smelt west coast iron sand; 44 geological specimens.

Mr. N. V. Matthews: Semi-albino blackbird.

Master of S.S. "Matua": Hawkbill turtle.

Mrs. H. E. Maude: Gold wedding ring which belonged to Edward Young, midshipman of the "Bounty," used for first 20 years for all marriages on Pitcairn.

Mrs. W. C. Maxwell: Iron spear heads, brass leg rings, augoni spear, ebony walking-sticks.

Mr. A. D. Mead: Nepheline basanite and specimens of andesite.

Mrs. A. Mellars: Stone adzes, whaling relics, Maori weapons, boomerang, and two kiwi eggs.

Mrs. J. M. Melville: Measure used in British mint for assaying gold.

The late Mr. C. F. C. Millar: Kumara weeder, Bay of Islands.

Mr. T. Moir: Six worked flints.

Mr. N. Morton: Medallion made from copper of Foudroyant.

Mr. G. and Miss Mueller: Glass case containing yellow mutant of kakapo (*Strigops habroptilus*).

Mr. C. G. Murdoch: Bone one-piece hook, Mercury Bay.

Mr. F. McClare: Nine model planes.

Most Rev. Archbishop McKeefry: Tricolor given to the late Lieut. M. J. A. McKeefry in Beauvois on its capture by Otago Regiment.

Mr. Graham Nevill: Wooden handle of *ko* or spade.

Master R. Newman: Stone adze.

Mr. N. A. Palmer: Hinaki or eel trap.

Mrs. Parsons: 22 species of plants, mainly from Tararua Ranges.

Mr. C. R. Paterson: Nest of wasp (*Vespa germanica*).

Miss I. H. Pirie: Mispickel in quartzite and other rock specimens.

Mr. F. Pollard: Stone adzes, Bay of Plenty.

Mr. G. Pollock: Illuminated address presented to H. C. Hills after his capture of Count von Luckner.

Mr. N. Potts: Plants for scree garden.

Mr. A. T. Pycroft: Maori gourds; by-gone type of soda-water bottle.

Mr. G. N. Lansdown: African crocodile eggs.

Purchased: Carved lintel, wooden coffin and wooden slabs, from Great Island, Three Kings Islands.

Sir James Gunson Fund: 14 greenstone hei tiki, greenstone chisel, piece of worked greenstone; greenstone adze from New Caledonia.

Purchased from Rutherston Collection: Two baked clay tablets. Wei period.

Mr. S. A. Rumsey: Photographs of rock pools.

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Mr. C. E. Sage: Ethnographical specimens from Rotuma Island.

Mr. G. O. K. Sainsbury: Moss species; *Plagiobryum novae-zeelandiae*, N.W. Ruahines.

Mr. Robert Sanders Jr.: Lava enclosing carbonised wood.

Mr. R. D. Scott: Fossil shell.

The late Mr. W. Shuttleworth: African and Melanesian specimens, and Maori paddle.

Mr. Geo. Simpson: 15 species alpine plants for the scree garden.

Professor Skottsberg: 1 packet Hawaiian bog plants.

Southland Museum: 25 stone adzes.

Miss D. Spragg: Stone pounder and two toki; Egyptian pottery lamp.

Mr. R. C. Steven: Fossil plants in shale, Deception Island.

Mr. J. M. Stevenson: Two hafted stone adzes, deposited by Mr. Stevenson on behalf of the Auckland Rugby Union.

Master William Strang: Egyptian currency note.

Mr. C. R. Switzer: Stone pounder, Okaiawa, Taranaki; grooved stone sinker, Maketu, Raglan.

Pastor I. Tanida: Stone adze and obsidian spear point, Japan.

Mr. T. Taylor: Pigeon trough, Te Whaiti.

Dr. F. C. Tibbs: Tooth necklace, Ocean Island.

Miss Ethel Tidswell: Apprentice's indenture, samples of wool, sampler and hand embroidery, England.

Mr. D. N. Trainor: Share certificate (500 f.) in de Lesseps Panama Canal Company of 1888, Paris.

Turnbull Library, ex Kent Collection: Enlargements (photographs) of native and exotic plants; also photographs of early Auckland and other North Island localities.

Mr. J. R. Turner: Two eggs of North Island kiwi (*Apteryx australis mantelli*).

Edward Earle Vaile Fund: Fifteen *hei tiki*, three greenstone chisels, two feather cloaks, wooden *patu tuna* (eel-club), wood-carving, carved river-canoe prow, and collections of stone implements from Pitcairn Island.

Mr. F. Wallis: 30-inch world-globe, turned from wood, with electric motor.

Alexander Museum, Wanganui: Bark basket (*patua*).

Mr. H. F. Watts: Study of a dead kauri being felled; study of a mill near Mangonui.

Major D. Wernham: Double-ended rat trap, Ellice Islands.

Wheat Research Institute, Christchurch: Collection of wheat samples showing Mendelian inheritance.

Major R. A. Wilson: Domestic-mallard cross and two shoveller ducks.

Mr. L. B. Wyatt: Wooden canoe carving, Trobriand Islands.

Mr. J. G. Wynyard: Concretions of gritty clay with limonite cores.

Mr. Albert Young: Three stone implements and volcanic glass, Pitcairn Island.

Mr. J. C. Young: Cast of footprint of moa, Tangimoana, Rangitikei River mouth.

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Members of the Auckland Institute.

HONORARY LIFE MEMBERS.

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Sir Frank Mappin, Bart.
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Professor H. W. Segar, M.A., F.R.S.N.Z.
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De Courcy, Dr. Grace.
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Ford, C. E.
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Wilson, Martyn.
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Barfoot, V. H
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Bassett, E. J.
Bateson, F. M.

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Brown, H.
Brown, J. C.
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Buddle, Basil.
Buddle, Mrs. R.
Buddle, C. B., LL.B.
Buddle, Major G. A., D.S.O.
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Burbidge, Professor P. W., M.Sc.
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Burton, John.
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Caradus, W., M.Sc.
Carless, N. P.
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Chatfield, Dr. H. A.
Childs, Dr. T. D. C.
Christmas, A. W.
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Clark, A. McCosh.
Clark, Brampton
Clark, Miss D.
Clark, Miss Jill.
Clark, Miss K. M.
Clark, Miss N.
Clark, R. C., M.A.
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Collins, W. R.
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Cookson, F. G.
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Cumming, Ian.
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Fuller, J.
Fulljames, K. A.

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Geddes, W. McKail, M.C.
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Green, Miss Cynthia.
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Hellaby, John.
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Hull, Commander F. A., R.N.
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Jepson, J. D.
Jerram, Miss M. G.
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Johnson, Major M. L.
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Roberts, C. V.
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Rogers, C. J.
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Smale, Dr. F. R.
Small, Miss H. E. A.
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Smith, F. A.
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Sriraman, M.
The Hon. Mr. Justice Stanton.
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Upton, P. T.

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Voss, A. S.

Waddell, J.
Wade, Dr. Wallace.
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Wilson, Dr. H. W.
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Wilson, J. McKenzie.
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Wright, Hugh C.
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Wyber, W. L.
Wynn-Williams, Miss O.

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Yock, J.
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The Auckland Institute and Museum is an educational institution which gives free service to the whole community throughout the year.

Money is urgently needed to widen its activities and increase its service to the community by the spread of knowledge among present and future citizens.

If additional help cannot be given now, a bequest would be of great value.

Form of Bequest.

I give and bequeath to the Institute known as the Auckland Institute and Museum the sum of £..... free of succession or estate duty to be applicable for the general purposes of such Institution. And I declare that the receipt of the Treasurer or the proper officer for the time being of such Institution shall be a sufficient discharge for the same.

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